PRO 64 SERIES

AUDIO DISTRIBUTION & NETWORKING

AVIOM

AVIOM'S PRO64® SERIES

With an unprecedented combination of flexibility, simplicity, and performance, the Pro64 Series from Aviom makes high fidelity audio networking a reality. Powered by the second generation of A-Net®, the Pro64 Series provides a robust backbone for a range of audio distribution applications.

UNSURPASSED FLEXIBILITY

The Pro64 Series combines plug-and-play simplicity with true network-style flexibility, while meeting the most demanding specifications for audio fidelity and clock integrity. With a host of features that includes remote controllable mic preamps, digital I/O, seamless fiber optic connectivity, and variable sample rates as high as 192kHz±, the Pro64 Series offers reliable, scalable connectivity without complicated computer programming.

With the press of a single button, a Pro64 network can be configured to run as a bidirectional system supporting up to 64x64 channels or as a 64-channel network with no directional limitations on audio signal flow, regardless of the number of serial or parallel connections in the network, and regardless of the physical placement of inputs and outputs. With the Pro64 Series, I/O modules can be placed wherever the application requires; signal flow is not restricted by the limitations inherent in Ethernet-based technologies.

THE MOST ADVANCED AUDIO NETWORK

Aviom's Pro64 products are connected by the Pro64 version of A-Net, Aviom's groundbreaking digital audio networking technology, designed specifically for the unique demands of distributing high fidelity audio.

Because A-Net was built from the ground up specifically for transporting audio, it isn't limited by the constraints of Ethernet. Pro64 A-Net has been optimized to deliver better performance than any Ethernet-based system, without imposing constraints on connection topology or clocking.

PRO64 A-NET

- ***Pristine digital clocking throughout the network***
- ***Bidirectional at all times***
- ***Up to 64x64 channels***
- ***Sub-millisecond latency, from analog in to analog out***
- ***400ft/120m Cat-5e cable runs***
- ***Seamless fiber connectivity***
- ***No sample rate converters***

SUPERIOR CLOCKING FOR SUPERIOR SOUND

Clock integrity is one of the most fundamental challenges in networking a digital audio signal. All digital audio devices depend on a clean, jitter-free clock, yet audio networks are inherently prone to clock degradation from device to device. This accumulated jitter can degrade the performance of an audio network, both in the digital domain and ultimately in the analog output of the devices in the system.

Pro64 A-Net is unique in its ability to preserve the integrity of the digital clock and minimize jitter and wander, even as the audio signal is passed through a long chain of serial network connections. Because clock jitter and wander are managed at the system level, Pro64 A-Net guarantees pristine audio transmission, without the use of data-altering sample rate converters, regardless of the size or layout of the digital audio network.

APPLICATIONS

Aviom's products can be combined to build systems for a wide range of applications. From digital snakes and tie lines, to mixing, conferencing, and source selection systems, Aviom solutions deliver simplicity and reliability combined with the flexibility of digital distribution.

- LIVE PERFORMANCE
- BROADCAST & FILM
- GOVERNMENT
- RECORDING STUDIOS
- HOUSES OF WORSHIP
- EDUCATION
- CORPORATE FACILITIES
- CONFERENCE CENTERS
- THEATRICAL PRODUCTIONS
- ENTERTAINMENT VENUES

PRO64 AUDIO NETWORKING: A CLOSER LOOK

Because Pro64 I/O modules, console cards, and network devices can be connected in any order and in any combination, building most systems is as simple as selecting the specific input and output modules required for the application, and connecting them in the most convenient manner. Pro64 systems can use any combination of serial (daisy-chain) or parallel (star) connections; parallel connections require the MH10 or MH10f Merger Hub.

A-NET SLOTS & CHANNEL ACTIVATION

Because the entire network stream passes through every Pro64 device, each I/O module can be set to operate within a specified channel range in the network. This is accomplished with the A-Net Slot function, which assigns a bank for a given device to utilize.

One of the most powerful features of Pro64 I/O modules is the individual channel activation switches. While the entire network stream is available to every I/O device, only the channels you want to use need to be activated. This allows system designers and operators to make more efficient use of network bandwidth.

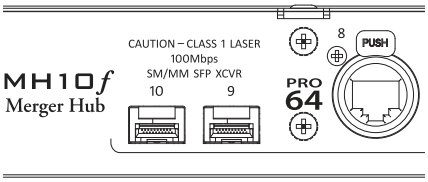
Both A-Net Slot selection and channel activation are simple front panel operations which can be modified at any time with a simple press of a button. No complex programming is required at any time, even if the application's needs change from day to day.

PARALLEL CONNECTIONS & FIBER

For systems that need the flexibility and security of parallel connections, the MH10 and MH10f provide ten bidirectional A-Net ports. These ports can be used in any combination to connect multiple split locations or to run backup cables.

The MH10f has eight RJ45 ports and two SFP slots for 100Mbps fiber optic transceivers. These slots can be populated with single- or multi-mode transceivers, according to the needs of a particular application.

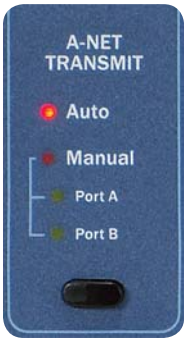
Regardless of the number of MH10 or MH10f Merger Hubs in a system, the network remains fully bidirectional at all times.



Ports 9 and 10 of the MH10f can accept SFP fiber optic transceivers.

CREATING A SPLIT

Once an input is active on the Pro64 network, it can be output in any format—analog, AES3 digital, or directly into a Yamaha® digital device—as many times as needed. High fidelity lossless splits are as easy to create as connecting a cable to any open network port; no expensive transformer splitters or complicated computer programming is ever required. And because Pro64 A-Net manages the digital clock so effectively, daisy chain and parallel connections can be combined without limit.



NETWORK MODES

Auto

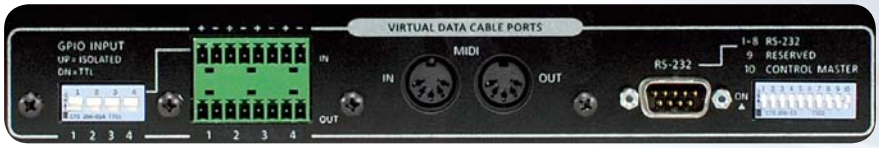
In *Auto Mode*, the Pro64 system is a 64-channel network with no directional limitations on signal flow. Once an audio signal is activated into the network stream, that signal is automatically distributed to every other device, regardless of the physical locations of I/O modules or the network's topology. Signal distribution has never been more straightforward.

Manual

In *Manual Mode*, the network runs as a 64x64 bidirectional system. Individual audio channel inputs can be assigned to either network stream. Ideally suited for larger systems with clear directional requirements, such as a stage-to-FOH digital snake, Manual Mode offers additional routing flexibility and higher total channel count while maintaining the simplicity of front-panel setup.

VIRTUAL DATA CABLES™

The Pro64 network also provides dedicated bandwidth for transmitting up to 14 channels of user control data with no impact on audio performance at any time. Use the VDCs to move GPIO, MIDI, RS-232, or RS-422 control data simultaneously to and from any I/O module in the network.



ADDING PRO16™ MIXERS

When your application requires the power of Pro64 networking and the control of Pro16 Personal Mixers, add the ASI A-Net Systems Interface to your network. The ASI breaks the Pro64 network stream into 16-channel blocks compatible with Pro16 Series Personal Mixers, output modules, and network devices.

In most systems, the Pro16 A-Net outputs of the ASI will be connected directly to one or more A-Net Distributors, which will be used to provide audio to multiple A-16II and A-16R Personal Mixers in parallel.

Analog Input

6416i Input Module

The 6416i Input Module provides 16 balanced line-level analog inputs to a Pro64 system. Each channel includes a four-position gain switch and three-segment level metering, and adjacent channels can be linked as a stereo pair. Audio thru connections are provided via DB25 multipin connectors on the rear panel.

- *16 balanced line-level analog inputs (XLR)*
- *DB25 alternate inputs/analog thrus*
- *Four gain settings per channel*
- *Virtual Data Cable connectivity for GPIO, MIDI, and RS-232*

6416m Mic Input Module

The remote-controllable 6416m Mic Input Module provides 16 mic-level analog inputs to a Pro64 system. Each channel features 55dB of gain control in 1dB steps, +48V phantom power, low cut filter, phase invert, mute, and an activation button. With a switchable 24dB pad per channel, the 6416m also accepts balanced line-level inputs.

- *16 state-of-the-art mic preamps (XLR)*
- *Passive splitter/alternate input (two DB25s)*
- *Continuously variable gain control in 1dB steps*
- *Save/recall 16 preset scenes*
- *Six-segment level meter per channel*
- *VDC connectivity for GPIO, MIDI, and RS-232*
- *Four-pin XLR connector for optional backup DC power*

EXTENDING CONTROL

Control channel settings and presets remotely on multiple 6416m modules using the RCI and MCS.

Analog Output

6416o Output Module

The 6416o Output Module provides 16 balanced analog outputs from a Pro64 network. Each channel includes a two-position output level switch (mic or line) and three-segment level metering. Alternate audio outputs are provided via DB25 multipin connectors on the rear panel.

- *16 balanced mic- or line-level analog outputs (XLR)*
- *DB25 alternate audio outputs*
- *Three-segment level meter per channel*
- *Virtual Data Cable connectivity for GPIO, MIDI, and RS-232*

Digital I/O and Console Interface

6416dio Digital I/O Module

The 6416dio Digital I/O Module provides sixteen channels of digital inputs and outputs using the AES3 format. With exceptional clock performance, the 6416dio meets the needs of digital console and workstation users in a wide range of applications.

- *16 AES3 digital inputs and outputs at all sample rates*
- *Available with DB25 or BNC connectors for audio I/O*
- *External clock via AES3 input or Word Clock in/out*
- *Four-pin XLR connector for optional backup DC power*
- *GPIO and RS-232/422 VDC connectivity*

6416Y2 A-Net Interface Card

The 6416Y2 is a mini-YGDAI (MY) card that supports up to 16 channels in and 16 channels out simultaneously, depending on the Yamaha host product's capacity and the selected system sample rate. Inputs and outputs may be assigned to one of four A-Net network Slot banks, while input channels may be individually activated as needed.

- *Up to 16 channels in and 16 channels out simultaneously*
- *Supports 44.1/48kHz and 88.2/96kHz*
- *Flexible and robust clocking allows simple console-to-console digital connections*
- *RS-232/422 Virtual Data Cable I/O (supports Yamaha remote control protocol)*

Network Devices

ASI A-Net Systems Interface

The ASI A-Net Systems Interface provides a link between Pro64 Series networking products and Pro16 Series output devices, such as the A-16II and A-16R Personal Mixers. The ASI features two Pro64 network ports and four Pro16 outputs, all using heavy duty locking Neutrik® EtherCon® connectors.

- *Four 16-channel Pro16 A-Net outputs (channels 1-16, 17-32, 33-48, and 49-64)*
- *Two Pro64 A-Net network ports*
- *Supports all Pro64 sample rates*

MH10 Merger Hub

The MH10 Merger Hub is similar to the familiar Ethernet switch, but with features and performance designed specifically for audio applications. With 10 bidirectional ports, the MH10 supports parallel connections without sacrificing the ability to distribute signals bidirectionally throughout an installation.

- *Ten bidirectional Pro64 A-Net ports (EtherCon connectors)*
- *Three channel routing configurations*
- *Supports redundant cable paths*

MH10f Merger Hub

The MH10f Merger Hub features the same basic functionality as the MH10 Merger Hub, but replaces ports 9 and 10 with 100 Mbps Fast Ethernet SFP slots, which can be outfitted with either single- or multi-mode fiber optic transceivers.

- *Eight EtherCon Pro64 A-Net ports*
- *Two 100 Mbps Fast Ethernet SFP slots*
- *Supports single- and multi-mode SFP fiber transceivers*
- *Four-pin XLR connector for optional backup DC power*

RCI Remote Control Interface

The RCI provides a secure interface between the Pro64 network and the MCS Mic Control Surface. The RCI can also be used as a stand-alone monitor station; any Pro64 audio resource can be monitored using the built-in headphone and/or line-level XLR output. Any number of RCIs can be installed anywhere in a network.

- *Flexible remote control architecture supporting multiple control points and multiple operators*
- *Control Groups for segmenting control among multiple users*
- *Network monitor station with headphone and line outputs*
- *Four-pin XLR connector for optional backup DC power*

MCS Mic Control Surface

Audio settings for each 6416m Mic Input Module channel—gain, phase, low cut filter, 24dB pad, +48V phantom power, and mute—as well as the 16 presets stored in each 6416m can be controlled from the MCS. Sixty-four bicolor LEDs provide real-time status monitoring of the full Pro64 network stream, while a high resolution meter provides detailed monitoring of the selected channel's signal level.

- *Real-time control of mic channel gain, phase, mute, pad, +48V phantom power, and low cut filter*
- *Save and recall of 6416m presets*
- *Real-time metering of the 64-channel network stream*
- *High resolution metering of the selected channel*

UNPRECEDENTED CONTROL

The RCI Remote Control Interface, in combination with the MCS Mic Control Surface, offers the ultimate flexibility in controlling 6416m Mic Input Modules. Any number of RCI Remote Control Interfaces can be installed throughout a Pro64 network, providing multiple points for controlling mic pre channel parameters and presets and for monitoring the network's audio stream.

A single MCS can be used to control up to 64 mic preamp inputs. Alternatively, the Control Group function on the 6416m and RCI can be used to divide control of active mic channels among up to four different simultaneous users and control points. With the full network visible at a glance, the MCS and RCI provide powerful control without complex programming or setup.

SAMPLE SYSTEMS

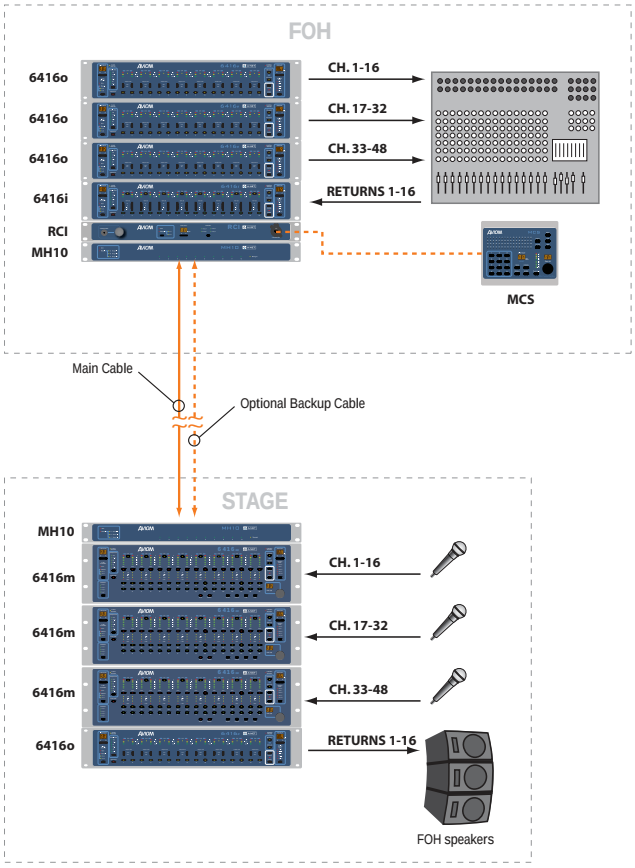
DIGITAL SNAKES & MONITORS

48 X 16 DIGITAL SNAKE

- *3 6416m Mic Input Modules*
- *1 6416i Input Module*
- *4 6416o Output Modules*
- *2 MH10 or MH10f Merger Hubs*
- *1 RCI Remote Control Interface*
- *1 MCS Mic Control Surface*

Up to 48 inputs on stage are connected to three 6416m Mic Input Modules. These channels are output at FOH by three 6416o Output Modules. Up to 16 channels of returns are transported back to stage by a 6416i Input Module. Audio settings and presets on the 6416m modules on stage are controlled remotely from FOH via the MCS Mic Control Surface. The MH10 Merger Hubs allow for an optional backup cable between Stage and FOH to be connected.

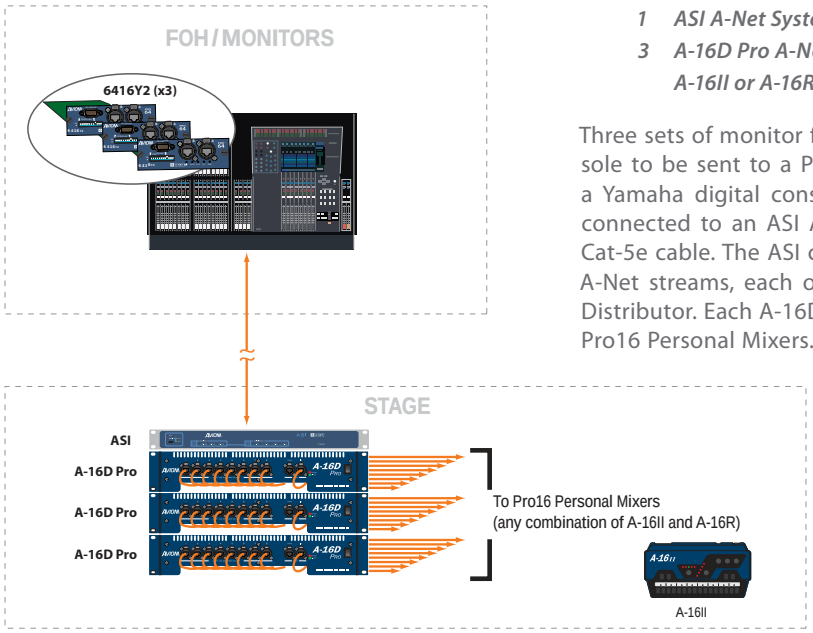
Splits (to Monitors, Broadcast, or Recording, for instance) can be added at any point in this system.



MULTI-ZONE MONITOR SYSTEM

- *3 6416Y2 A-Net Cards*
- *1 ASI A-Net Systems Interface*
- *3 A-16D Pro A-Net Distributors*
- *A-16II or A-16R Personal Mixers*

Three sets of monitor feeds are prepared at the FOH or monitor console to be sent to a Pro16 Monitor Mixing System. In this example, a Yamaha digital console is fitted with three 6416Y2 A-Net Cards, connected to an ASI A-Net Systems Interface on stage by a single Cat-5e cable. The ASI coverts the Pro64 audio stream to three Pro16 A-Net streams, each of which is connected to an A-16D Pro A-Net Distributor. Each A-16D Pro provides audio and power to up to eight Pro16 Personal Mixers.



64 X 16 DIGITAL SNAKE WITH SPLIT TO MONITORS

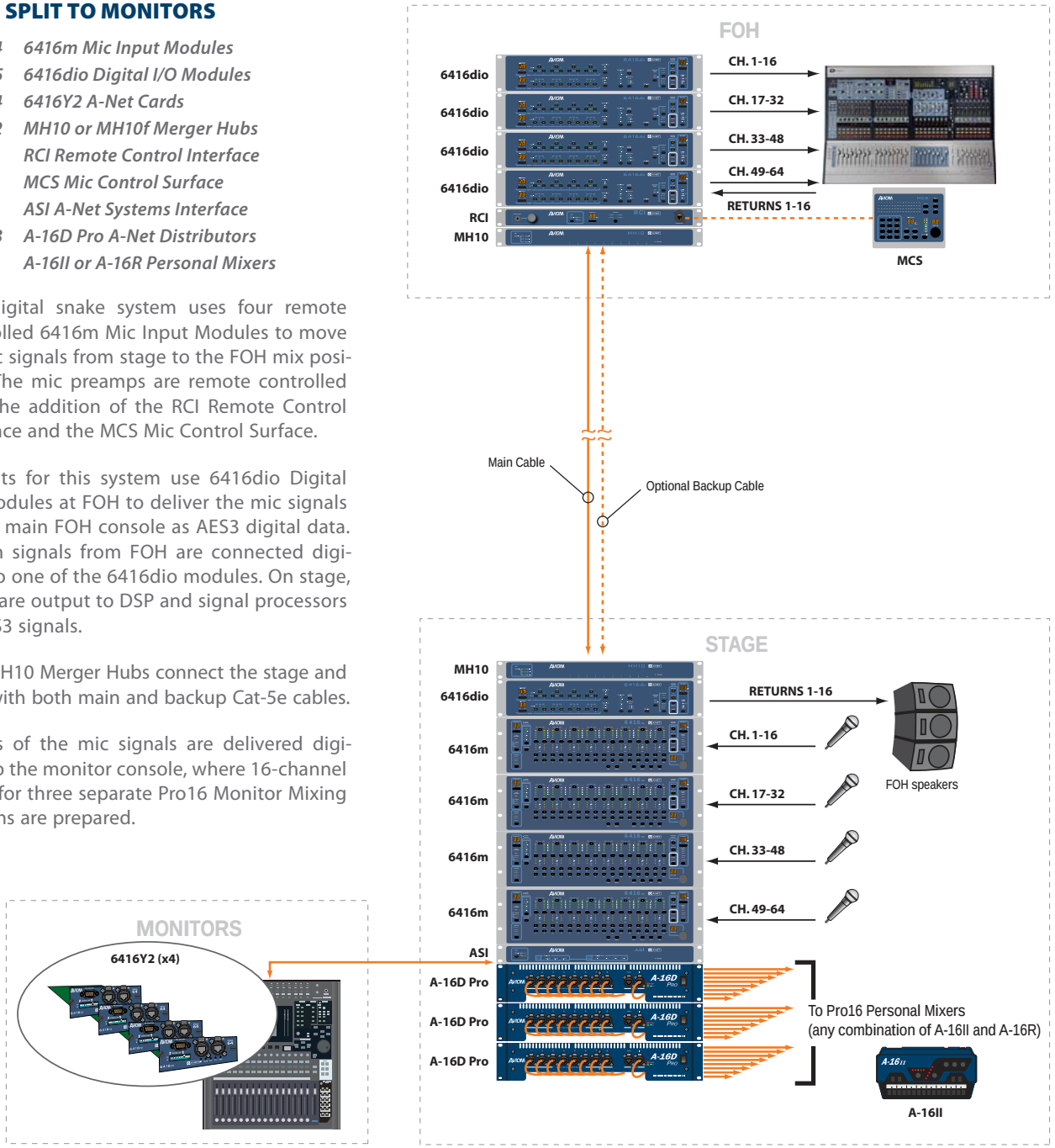
- *4 6416m Mic Input Modules*
- *5 6416dio Digital I/O Modules*
- *4 6416Y2 A-Net Cards*
- *2 MH10 or MH10f Merger Hubs*
- *1 RCI Remote Control Interface*
- *1 MCS Mic Control Surface*
- *1 ASI A-Net Systems Interface*
- *3 A-16D Pro A-Net Distributors*
- *A-16II or A-16R Personal Mixers*

This digital snake system uses four remote controlled 6416m Mic Input Modules to move 64 mic signals from stage to the FOH mix position. The mic preamps are remote controlled with the addition of the RCI Remote Control Interface and the MCS Mic Control Surface.

Outputs for this system use 6416dio Digital I/O Modules at FOH to deliver the mic signals to the main FOH console as AES3 digital data. Return signals from FOH are connected digitally to one of the 6416dio modules. On stage, these are output to DSP and signal processors as AES3 signals.

Two MH10 Merger Hubs connect the stage and FOH with both main and backup Cat-5e cables.

Copies of the mic signals are delivered digitally to the monitor console, where 16-channel feeds for three separate Pro16 Monitor Mixing Systems are prepared.



SAMPLE SYSTEMS

DISTRIBUTED AUDIO & NETWORKS

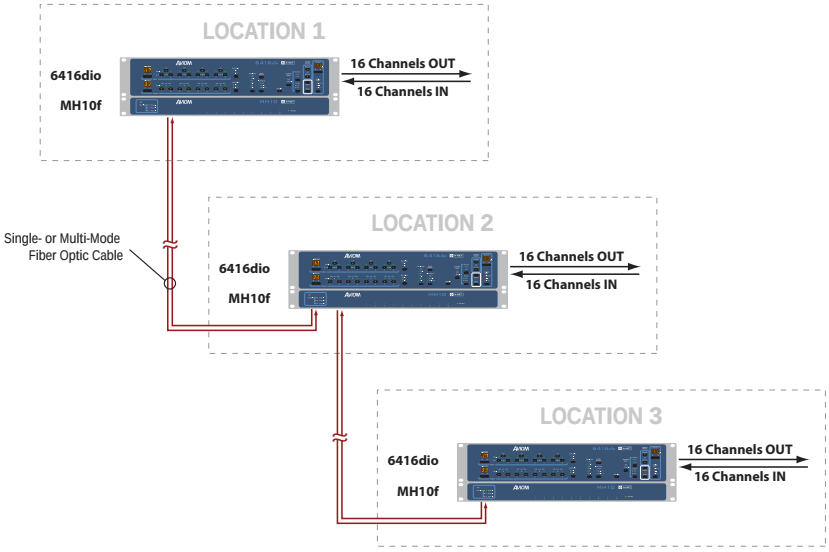
DIGITAL DISTRIBUTION OVER FIBER

- *3 6416dio Digital I/O Modules*
- *3 MH10f Merger Hubs*

Each 6416dio provides 16 AES3 digital inputs and 16 AES3 digital outputs simultaneously. In this system, each module transmits its active input channels on a different Slot range within the Pro64 network. Output Slot ranges are selected independently.

The MH10f Merger Hubs shown here allow I/O locations to be separated by miles of fiber. Clock integrity is preserved throughout.

Analog I/O modules may be added or substituted. Additional I/O locations may be connected with any combination of Cat-5e or fiber.

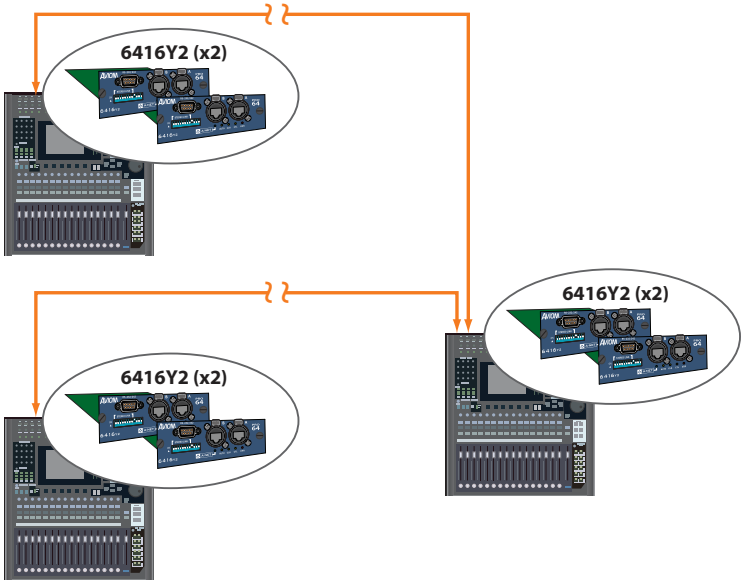


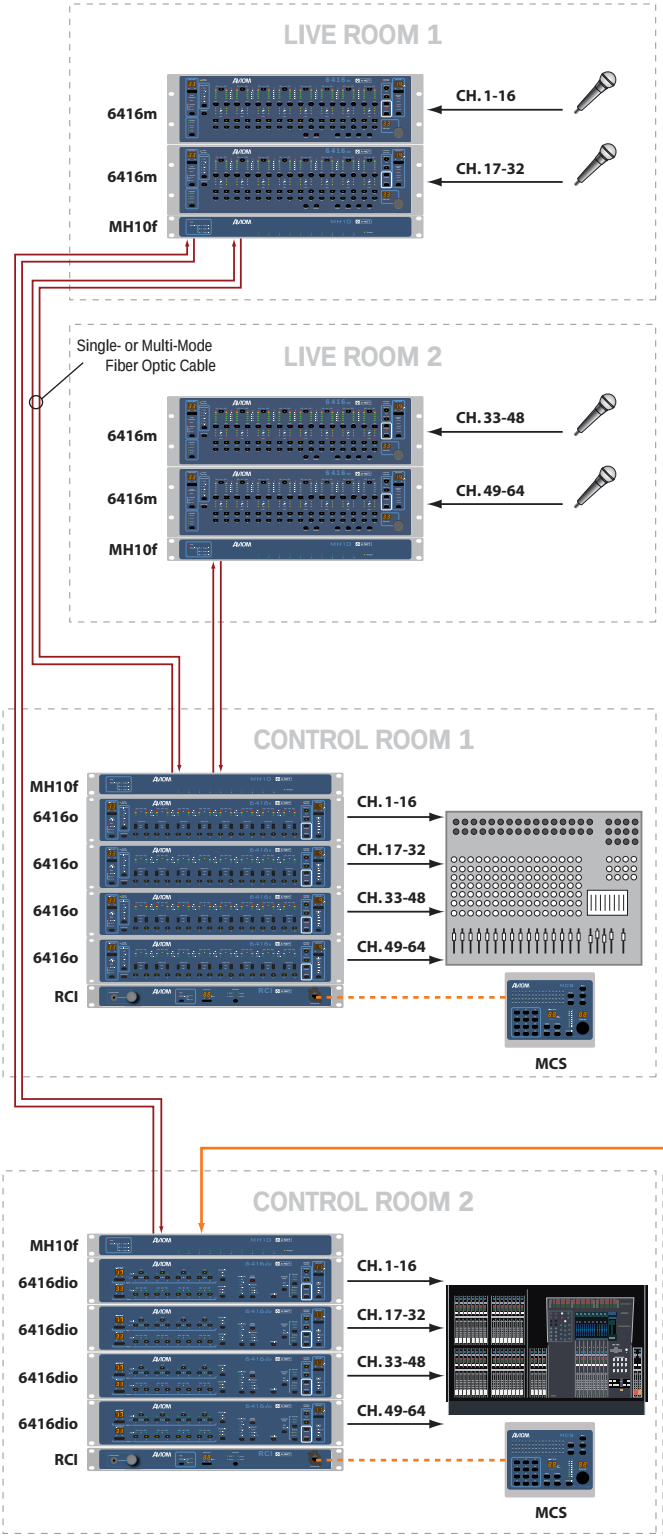
CONSOLE INTERCONNECT

- *6 6416Y2 A-Net Cards*

A Pro64 network can be used to connect multiple Yamaha digital consoles, allowing users to share data in the digital domain at sample rates up to 96kHz.

In this system, each Yamaha digital console is fitted with a pair of 6416Y2 cards that can each provide 16 inputs and 16 outputs (or 8 in and 8 out at 96kHz). The cards are linked with short Cat-5e cables, and the three consoles are connected with Cat-5e cables to complete the network. Channel count can be increased by adding cards to these consoles; additional consoles may be connected as well.





64-CHANNEL TIE LINES

- *4 6416m Mic Input Modules*
- *8 6416dio Digital I/O Modules*
- *4 6416o Output Modules*
- *3 RCI Remote Control Interfaces*
- *3 MCS Mic Control Surfaces*
- *4 MH10f Merger Hubs*
- *1 MH10 Merger Hub*

These tie lines connect two live rooms or performance spaces with three control rooms. Each live room has 32 channels of mic inputs, and any combination of these 64 channels can be output in any of the control rooms. This system shows two rooms equipped with digital outputs and one with analog.

The live rooms are connected by fiber to Control Rooms 1 and 2; the remaining control room is connected via Cat-5e. The control rooms show audio outputs from the Pro64 network connected to a variety of devices, including digital and analog consoles and a digital audio workstation (DAW).

All three control rooms can simultaneously control the audio settings and presets on the mic preamps in the live rooms. Alternatively, control of the network mics can be divided among the three control rooms using the Control Group function on the RCI and 6416m.

SAMPLE SYSTEMS

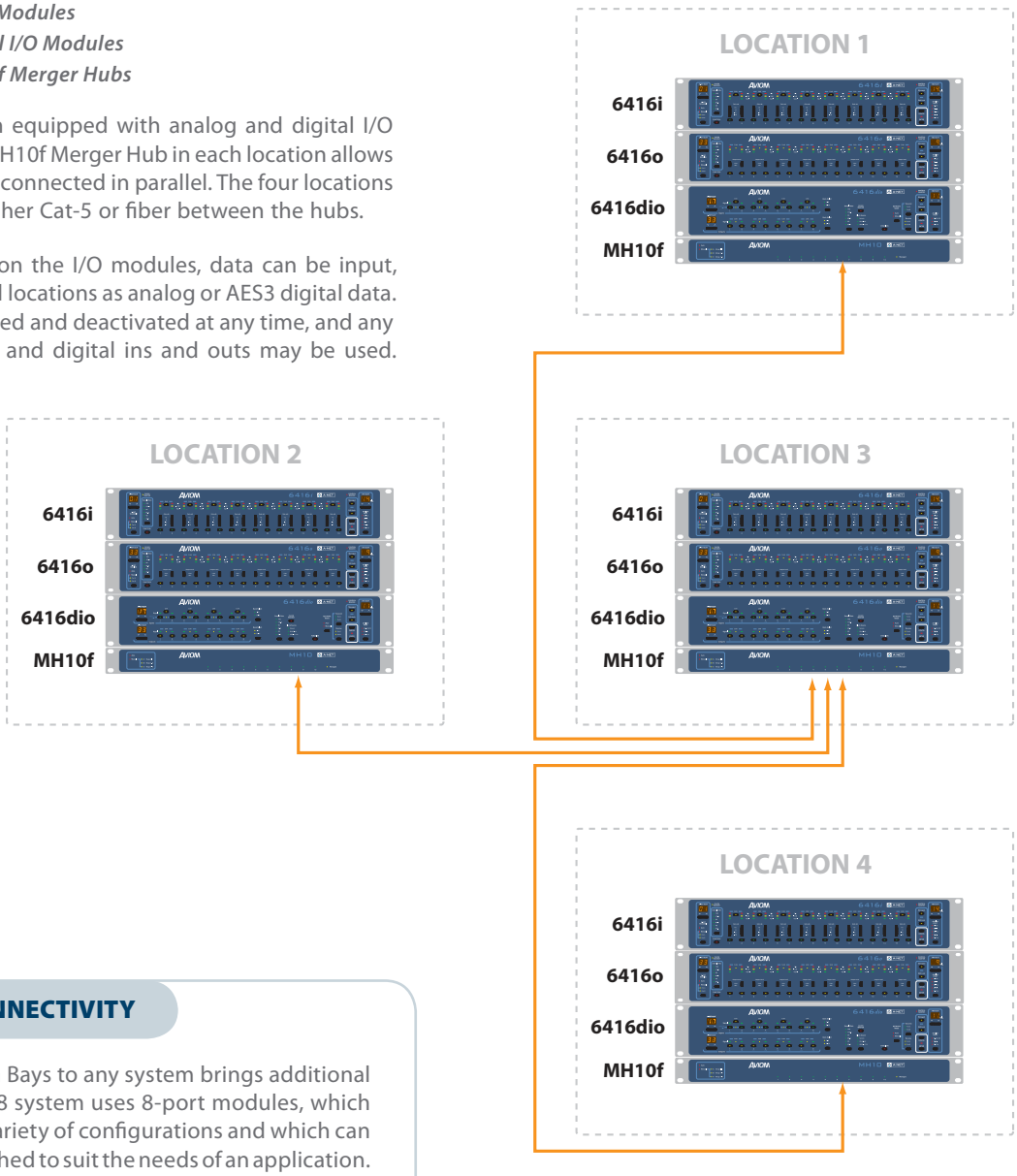
DIGITAL SNAKES

4-LOCATION TIE LINE SYSTEM

- *4 6416i Input Modules*
- *4 6416o Output Modules*
- *4 6416dio Digital I/O Modules*
- *4 MH10 or MH10f Merger Hubs*

Four locations are each equipped with analog and digital I/O modules. An MH10 or MH10f Merger Hub in each location allows the Pro64 devices to be connected in parallel. The four locations are connected using either Cat-5 or fiber between the hubs.

By setting Slot ranges on the I/O modules, data can be input, copied, and shared in all locations as analog or AES3 digital data. Channels can be activated and deactivated at any time, and any combination of analog and digital ins and outs may be used.



ENHANCED CONNECTIVITY

Adding PB28 Patch Bays to any system brings additional flexibility. The PB28 system uses 8-port modules, which are available in a variety of configurations and which can be mixed and matched to suit the needs of an application. All PB28 modules feature heavy duty locking connectors and stand up to the rigors of daily use, from road case to truck rack to AV closet to control room.

SPECIFICATIONS

6416i

Channels	16 inputs, XLR, Pin 2 Hot	Line level
Audio Thru/Alt. In	DB25 multipin, x2; Tascam® audio pinout	
Input Impedance	3k ohms	
Input Gain Range	+6, 0, -6, -14 (dB)	4-position switch
Maximum Input Level	+18dBu	
Frequency Response	-3dB: 2Hz and 23kHz ±0.5dB: 3Hz–22kHz (at 1x sample rate)	
THD +N	< .002% at -10dBFS	
Signal to Noise	A/D: -111dB (unweighted)	
Crosstalk	<100dB at 1kHz	
Virtual Data Cables	MIDI; RS-232; GPIO	
Dimensions/Weight	2U; 9 pounds (4.1 kg)	

6416m

Channels	16 inputs, XLR, Pin 2 Hot	Mic or line level
Passive Split / Alt. Inputs	DB25 multipin, x2; Tascam® audio pinout	
Input Impedance	3.6k ohms	
Input Gain Range	0–55dB, variable, in 1dB increments	
Maximum Input Level	With 0dB gain, Pad on = +24dBu; Pad off = 0dBu; With 55dB gain, Pad on = -31dBu; Pad off = -55dBu	
Pad	-24dB, switchable per channel	
Low Cut Filter	85Hz cutoff at 18dB per octave; per channel	
Phantom Power	+48V, switchable per channel	
Frequency Response	+/-0.3dB 20-23kHz at 48kHz; 20-45kHz at 96kHz; 20-53kHz at 192kHz; -3dB @ 2Hz (all sample rates)	
THD +N	0.0015% @ 1.0kHz, -10dBFS; 0.007% @ 1.0kHz, -1dBFS	
Signal to Noise	A/D: -112dB (unweighted)	
Crosstalk	-110dB @ 1kHz, 35dB gain	
Equivalent Input Noise	-127dBu	
CMRR	78dB @ 1.0kHz / 75dB @ 10kHz, typical	
Virtual Data Cables	MIDI; RS-232; GPIO	
Backup DC Power Inlet	24VDC, 1.75 amp max. 4-pin XLR; Pin 1 Ground; Pin 4 24VDC	
Dimensions/Weight	3U; 15 pounds (6.80 kg)	

MH10f

LED Indicators	A-Net Active, x10
A-Net	8 EtherCon® RJ45 connectors; 2 100Mbps Ethernet SFP fiber optic transceiver slots
Backup DC Power Inlet	24VDC, 2.0 amp max. 4-pin XLR; Pin 1 Ground; Pin 4 24VDC
Dimensions/Weight	1U; 8 pounds (3.63 kg)

MH10

LED Indicators	A-Net Active, x10
A-Net	10 EtherCon® RJ45 connectors
Dimensions/Weight	1U; 8 pounds (3.63 kg)

RCI

Controller Port	EtherCon® RJ45	Accepts MCS
Headphone Monitor	1/4-inch TRS, mono, with level control	
Monitor Output	XLR jack, balanced line level, mono	
XLR Output Level	+4dBu (Pad off), -17dBu (Pad on)	
Backup DC Power Inlet	24VDC, 0.75 amp max. 4-pin XLR; Pin 1 Ground; Pin 4 24VDC	
Dimensions/Weight	1U; 7 pounds (3.17 kg)	

MCS

Controller Port	EtherCon® RJ45	Connects to RCI
Channel Level	64 bicolor LEDs	
High Resolution Meter	10-segment, -48 to 0dB	
Peak Hold	On/Off	
Gain Control	Rotary; per channel, in 1dB steps	
6416m Channel Controls	Phase; Low Cut Filter; 24dB Pad; +48V Phantom Power; Mute	
Preset Management	Save/recall 16 presets; stored in the 6416m	
Dimensions/Weight	6"x 5"x 1.5" (152.4 x 127 x 38.1 mm) 2 lb (0.91 kg)	

6416o

Channels	16 outputs	Mic or line level
XLR Outputs	Pin 1: Shield; Pin 2: Hot; Pin 3: Cold Impedance balanced; Signal on hot only	
Alt. Audio Outputs	DB25 multipin, x2; Tascam® audio pinout	
Output Impedance	91 ohms	
Output Levels	+4dBu, -17dBu	2-position switch
Max. Output Level	+4dBu	
Frequency Response	-3dB: 2Hz and 23kHz ±0.5dB: 3Hz–22kHz (at 1x sample rate)	
THD +N	< .002% at -10dBFS	
Signal to Noise	D/A: -111dB (unweighted)	
Crosstalk	<100dB at 1kHz	
Virtual Data Cables	MIDI; RS-232; GPIO	
Dimensions/Weight	2U; 9 pounds (4.1 kg)	

6416dio

Digital Audio I/O	16 inputs, 16 outputs	AES3
	DB25 version: Digidesign®/Tascam® and Yamaha® compatible pinouts provided	
	BNC version: AES3id format (16 BNCs)	
Clock Sources	Internal or external (via AES3 in or Word Clock)	
	External Word Clock I/O: BNC (x2)	
Word Clock Input	Sensitivity: 0.2 to 5Vp-p	
	Impedance: 75 ohms/70k ohms selectable	
Jitter Attenuation	Well below AES3 Jitter Transfer Function Mask	
Virtual Data Cables	RS-232/RS-422; GPIO	
Backup DC Power Inlet	24VDC, 0.8 amp typical, 1.3 amp max. 4-pin XLR; Pin 1 Ground; Pin 4 24VDC	
Dimensions/Weight	2U; 9 pounds (4.1 kg)	

6416Y2

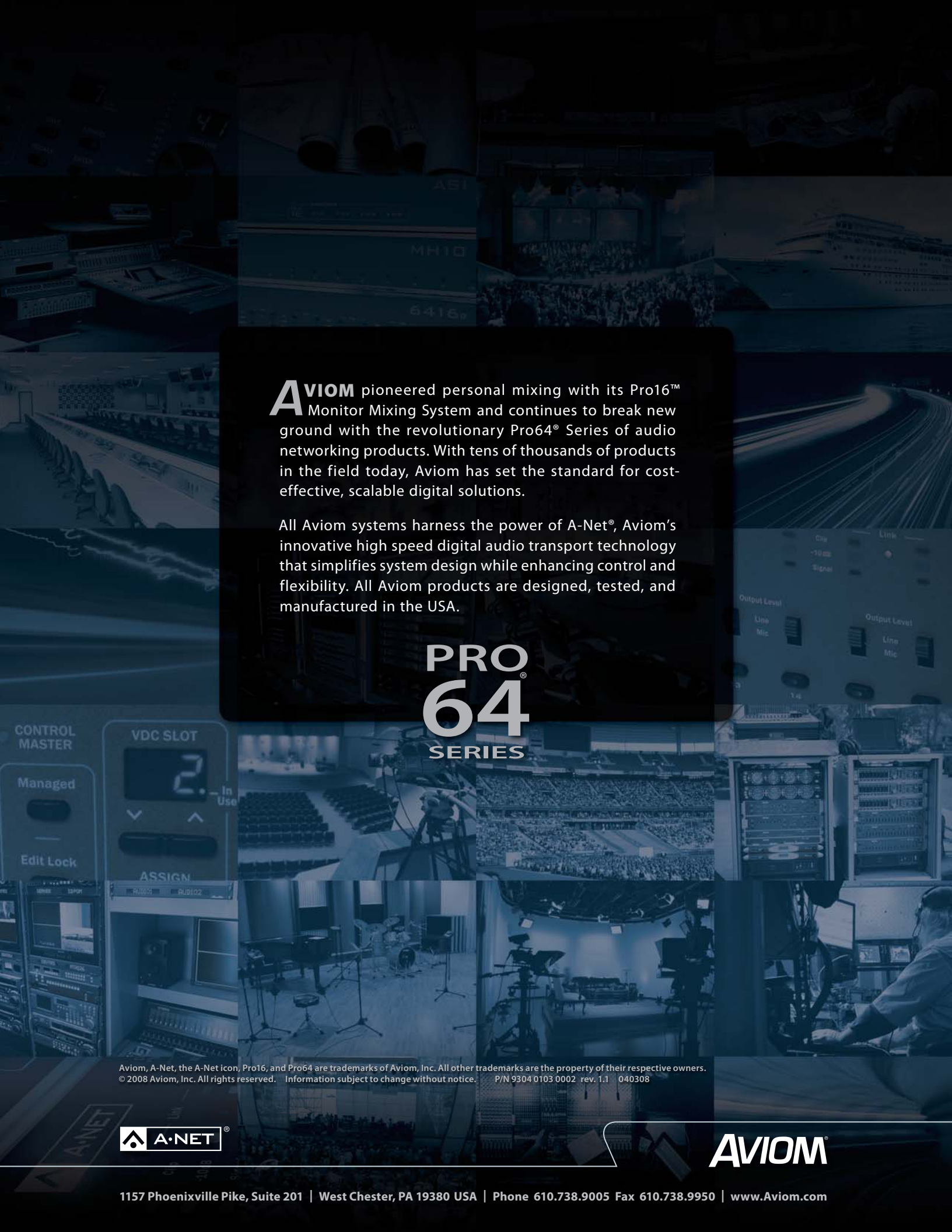
Channels	Up to 16 inputs and 16 outputs simultaneously
Interface Format	Yamaha® mini-YGDAI (MY) Expansion Card supports 8- and 16-channel modes
Sample Rates	1x: 39.7–52kHz; 2x: 79.4–104kHz
Virtual Data Cables	RS-232/RS-422
Power Supply	+3.3V, +5V, +15V supplied by Yamaha host device
Dimensions	4.75"w x 6.25"d x 1.5"h (120.7 x 158.8 x 38.1 mm)
Weight	0.8 pounds (0.36 kg)

ASI

LED Indicators	Pro64 Sample Rate; Pro16 Available Outputs
Pro64 A-Net	2 EtherCon® RJ45 connectors, rear panel
Pro16 A-Net Output	4 EtherCon® RJ45 connectors, rear panel
Pro64 Sample Rates	39.7–52kHz; 79.4–104kHz; 158.8–208kHz
Pro16 Sample Rate	39.7–52kHz
Latency	Analog in (to Pro64 device) to analog out (from Pro16 device): <1ms
Dimensions/Weight	1U; 5.5 pounds (2.49 kg)

SYSTEM-WIDE SPECS

Clock Integrity	Below the Jitter Audibility Curve as specified in AES paper 3361
Sample Rates	39.7–52kHz; 79.4–104kHz; 158.8–208kHz 24 bit resolution
Latency	Analog input to analog output: <800µs Pass-through delay: <2µs
Virtual Data Cable I/O	MIDI In, MIDI Out; 5-pin DIN
	RS-232/422 DB9 connector; DIP switch configuration
	GPIO In (x4), Out (x4); terminal block connectors; DIP switch configuration; TTL or isolated
A-Net Cable Length	400 feet (120 meters) between devices; Unshielded UTP Cat-5e or better
	MH10f supports single- or multi-mode fiber optics
Power Supply	100–240VAC, 50–60Hz, 24W; Internal switching type
Max. Ambient Temp.	50°C



AVIOM pioneered personal mixing with its Pro16™ Monitor Mixing System and continues to break new ground with the revolutionary Pro64® Series of audio networking products. With tens of thousands of products in the field today, Aviom has set the standard for cost-effective, scalable digital solutions.

All Aviom systems harness the power of A-Net®, Aviom's innovative high speed digital audio transport technology that simplifies system design while enhancing control and flexibility. All Aviom products are designed, tested, and manufactured in the USA.

PRO 64® SERIES

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